

7/19/7
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

00784857 **Image available**
SHAFT SEALING ELEMENT

PUB. NO.: 56-105157 [JP 56105157 A]
PUBLISHED: August 21, 1981 (19810821)
INVENTOR(s): WASHIDA AKIRA
APPLICANT(s): WASHIDA AKIRA [000000] (An Individual), JP (Japan)
APPL. NO.: 55-006152 [JP 806152]
FILED: January 22, 1980 (19800122)
INTL CLASS: [3] F16J-015/32
JAPIO CLASS: 22.1 (MACHINERY -- Machine Elements)
JOURNAL: Section: M, Section No. 97, Vol. 05, No. 183, Pg. 153,
 November 21, 1981 (19811121)

ABSTRACT

PURPOSE: To generate an effect of screw pump and improve the sealing quality in a **shaft** sealing element provided with an annular lip of almost V-shaped section as the **shaft** sealing part, by providing **radial** ruggedness on the surface at the side opposite to sealing fluid for a **shaft** sealing face of the lip .

CONSTITUTION: A shaft sealing element 3 equipped in a casing 2 is constituted by a reinforcing ring 4, annular lip 5 and a spring ring 6. The inner circumference of the lip 5 forms a section almost in V-shape, and its inner circumferential edge is formed as a shaft sealing face 7 contacted to the periphery of a shaft 1 and contact pressure of said shaft sealing face 7 is given by the spring 6 engaged to the periphery of the lip 5. In the inner circumference of the lip 5 for said shaft sealing element 3, many radially rugged parts 8 are provided in the side opposite to sealing fluid, that is, the side of outside air A of the shaft sealing face 7. Said rugged parts 8 are curved as shown in the drawing due to the friction contact with the shaft 1 when the shaft 1 is rotated, and this causes the display of an effect of screw pump, permitting the prevention of a leak of sealing fluid L to the side of outside air A

C:\Program Files\Dialog\DialogLink\Graphics\3D.bmp

